



SECTION 22 11 19

Domestic Water Piping Specialties

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Unit shall be a Bell & Gossett® Temp Setter™ Thermostatic Balance Valve Model TS or Model TSB, as manufactured by Xylem.
- B. Furnish Thermostatic Balance Valve with capabilities as indicated in the plans.

1.02 RELATED SECTIONS

- A. Section 22 11 00 – Facility Water Distribution
- B. Section 22 11 16 – Domestic Water Piping

1.03 REFERENCES

- A. ANSI - American National Standards Institute.
- B. ISO - International Standards Organization.

1.04 SUBMITTALS

- A. Submit data cover sheet.
- B. Dimensional print(s).
- C. Sales bulletin.
- D. Installation, operation & maintenance manual.

1.05 QUALITY ASSURANCE

- A. The Valve manufacturer shall be fully certified by the International Standards Organization per ISO 9001.
- B. The manufacturer shall carry a minimum product liability insurance of \$5,000,000.00 per occurrence.
- C. The valve actuator shall be UL listed or recognized by Underwriters' Laboratories, Inc.

1.06 MAINTENANCE MATERIAL SUBMITTALS

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Subject to compliance with these specifications, the following manufacturers shall be acceptable:
 - 1. Thermostatic Balance Valve
 - a. Xylem Inc. Bell & Gossett® Temp Setter™ Thermostatic Balance Valve Model TS or Model TSB
 - a. Pre-approved equal

2.02 COMPONENTS

- A. Thermostatic Balance Valve
 - 1. The valve shall be certified lead free according to NSF/ANSI 61 standards.
 - 2. The valve body shall be constructed out of 316 stainless steel.
 - 3. The valve shall be rated for 145 PSIG working pressure.
 - 4. The valve shall have a temperature adjustment dial in GPM. The dial shall have an adjustment range of 98°F (35°C) to 150°F (65°C).
 - 5. The valve shall have a temperature accuracy of ±3.6°F (±2°C).

Temp Setter™ Thermostatic Balance Valve Specifications

6. Temperature dial shall have a built in magnifying glass cover.
7. The valve shall have a wax thermostatic element that is out of contact with the circulating water.
8. The valve shall include a polystyrene (EPS) thermal insulation block with Velcro straps.
9. **(Optional)** The valve shall include a built in bypass to allow for thermal disinfection of the domestic hot water recirculation system.
10. **(Optional)** The valve bypass shall have a flow range of 0.06 – 0.29 GPM.
11. **(Optional)** The valve bypass shall be manually adjustable with a GPM dial to set the bypass flow rate.
12. **(Optional)** The valve bypass dial shall have a built in magnifying glass cover.
13. **(Optional)** The valve bypass shall be automatically adjustable through the use of a thermoelectric actuator.

2.02 ACCESSORIES

- A. Thermostatic Balance Valve Accessories
 1. Polystyrene (EPS) thermal insulation block with Velcro straps.

PART 3 EXECUTION

1. INSTALLATION

- A. Install Thermostatic Balance Valve in accordance with manufacturer's instructions.
- B. Unit shall be a Bell & Gossett® Temp Setter™ Thermostatic Balance Valve Model TS or Model TSB as manufactured by Xylem.

END OF SECTION



www.bellgossett.com

Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.

© 2018 Xylem Inc. Temp Setter Thermostatic Valve November 2018